CS 289 Knowledge representation and reasoning
Fall 1995 Stuart Russell

Project 1, due 9/20

Do Exercise 6.14 in Russell & Norvig, but instead of using your algorithm to solve 6.12, use it to show the validity of de Morgan's laws.

Given your representation of Boolean expressions, write a function to convert any expression into CNF.

Do Exercise 6.15 in Russell & Norvig. For part **c**, check the validity of de Morgan's laws again rather than doing the examples in 6.3.

Write a function that generates a CNF representation of an n-queens problem. Solve the biggest instance you can using your GSAT algorithm.

[[Hint: although C is probably more efficient, doing this project in Common Lisp will probably leave you much more time for running the experiments! Write your GSAT algorithm using appropriate data abstractions, begin with a simple implementation, and only work on fancification for efficiency if time permits.]